White Pine LTA Groups

LTA Group	Acres	Percent
Colluvial Mid-slopes	3476	49.45931
Low Elevation Stream Bottoms, Alluvial Deposits, Meadows, Glacial Terraces	145	2.063176
Non-umbric Low Relief Rolling Hills	3131	44.55037
Umbric Low Relief Rolling Hills	276	3.927149
	7028	100

White Pine PVT Groups

PVT Group	Acres*	Percent
Cool Moist	2	<1
Warm Moist	6660	95
Warm Dry	366	5
	7028	100

White Pine Warm Dry Dominance Type

Dominance Type	Acres	Existing Condition (%) *	Desired Future Condition (%) **	Gap Between EC and DFC	Post Harvest Acres ***	Post Harvest %	Management Action to meet Desired Condition
Ponderosa Pine	69	19	50-60%	31-41% Below	158	43	Increase through regeneration harvest; focus on Douglas-fir and grand fir.
Douglas-fir	128	35	15-20%	17-22% Above	109	30	Decrease through regeneration harvest and planting of ponderosa pine. Focus on areas with active root disease
Lodgepole Pine	0	0	15-20%	15-20% Below	0	0	This area does not have lodgepole pine stands like other areas on the Palouse. No action is necessary.
Western Larch/ Douglas fir	10	3	1-2%	1-2% Below	0	0	Increase through regeneration harvest and planting larch seedlings
Grand Fir	159	43	2-10%	33-41% Above	99	27	Decrease through regeneration harvest and planting ponderosa pine or western larch.
	366	100			366	100	

*Dominance types are from Region 1 Vmap, Dom40 attribute, which assigns one species to a polygon when it makes up 40% of the canopy cover. Otherwise a shade tolerant or shade intolerant mix is assigned.

**From Forest Plan Revision DFCs for Warm Dry PVT for MA3. MA3 is very similar to E1, which is most of the project area.

***Post Harvest assumes all harvest and associated planting has occurred and only makes a change to dominance type for regeneration harvest treatments. This is an estimate considering actual harvest acres vary from the planning acres, and appropriate habitat types for ponderosa pine restoration are determined on the ground versus using GIS. Some areas may be appropriate to plant western larch as well.

Existing Condition		
Vmap Dom Type	Acres	Dominance Type Assigned (Above)
Herb	10	Ponderosa Pine
Shrub	15	Ponderosa Pine
MX-PIPO	44	Ponderosa Pine
MX-PSME	128	Douglas-fir
MX-ABGR	144	Grand Fir
MX-THPL	9	Grand Fir
TMIX	6	Grand Fir
IMIX	10	Western Larch/ Douglas-fir
Total	366	

Post Harvest		
Vmap Dom Type	Acres	Dominance Type Assigned (Above)
Herb	9	Ponderosa Pine
Shrub	14	Ponderosa Pine
MX-PIPO	135	Ponderosa Pine
MX-PSME	109	Douglas-fir
MX-ABGR	92	Grand Fir
MX-THPL	7	Grand Fir
IMIX	0	
Total	366	

White Pine Warm Dry Size Class

Size Class	Acres	Existing Condition (%) *	Desired Future Condition (%) **	Gap Between EC and DFC	Post Harvest Acres ***	Post Harvest %	Management Action to meet Desired Condition
Seral Grass/Shrub	25	7	5-15%	Within Range	23	6	No action
0-4.9" DBH	25	7	10-25%	3-18% Below	118	32	Increase through regeneration harvest of DBH 15-19.9" and 20+ DBH with active root disease
5-14.9" DBH	116	32	20-40%	Within Range	88	24	No action
15-19.9" DBH	155	42	15-25%	17-27% Above	102	28	Decrease through regeneration harvest; focus on active root disease stands
20+" DBH	45	12	10-35%	Within Range	35	10	Decrease through regeneration harvest only in active root disease stands
	366	100			366	100	

*Size Class is from Region 1 Vmap, TreeSize attribute.

**From Forest Plan Revision DFCs for Warm Dry PVT for MA3. MA3 is very similar to E1, which is most of the project area.

***Post Harvest assumes all harvest and associated planting has occurred and only makes a change to size class for regeneration harvest treatments. This is an estimate considering actual harvest acres vary from the planning acres. Harvest units were assigned to the 0-4.9" DBH because they will have tree cover which creates a slight imbalance with desired future condition. However, the need for ponderosa pine restoration and the current health of stands impacted by root disease is also an important factor.

Existing Condition		
Vmap Tree Size	Acres	Size Class Assigned (Above)
Herb	10	Seral Grass/Shrub
Shrub	15	Seral Grass/Shrub
DBH 0-4.9"	25	0-4.9" DBH
DBH 5-9.9"	18	5-14.9" DBH
DBH 10-14.9"	98	5-14.9" DBH
DBH 15-19.9"	155	15-19.9" DBH
DBH >= 20"	35	20+" DBH
DBH 20-24.9"	10	20+" DBH
Total	366	

Post Harvest		
Vmap Tree Size	Acres	Size Class Assigned (Above)
Herb	9	Seral Grass/Shrub
Shrub	14	Seral Grass/Shrub
DBH 0-4.9"	118	0-4.9" DBH
DBH 5-9.9"	9	5-14.9" DBH
DBH 10-14.9"	79	5-14.9" DBH
DBH 15-19.9"	102	15-19.9" DBH
DBH >= 20"	34	20+" DBH
DBH 20-24.9"	1	20+" DBH
Total	366	

White Pine Warm Moist Dominance Type

Dominance Type	Acres	Existing Condition (%) *	Desired Future Condition (%) **	Gap Between EC and DFC	Post Harvest Acres ***	Post Harvest %	Management Action to meet Desired Condition
Ponderosa Pine	503	8	10-20%	2-12% Below	476	7	Increase through regeneration harvest; focus on Douglas-fir and grand fir.
Douglas-fir	1480	22	2-5%	17-20% Above	1045	16	Decrease through regeneration harvest; focus on root disease stands
Lodgepole Pine	36	1	5-10%	4-9% Below	36	1	This area does not have lodgepole pine stands like other areas on the Palouse. No action is necessary.
Western Larch	251	4	15-30%	11-26% Below	246	4	Increase through regeneration harvest and planting western larch seedlings.
Grand Fir/ Western Redcedar	4220	63	10-20%	43-53% Above	3083	46	Decrease through regeneration harvest; focus on root disease stands.
Western White Pine	170	3	25-40%	22-37% Below	1774	27	Increase through regeneration harvest and planting western white pine.
Subalpine Fir/ Englemann Spruce	0	0	1-2%	1-2% Below	0	0	This area does not have subalpine fir or englemann spruce stands like other areas on the Palouse. No action is necessary.
	6660	100			6660	100	

*Dominance types are from Region 1 Vmap, Dom40 attribute, which assigns one species to a polygon when it makes up 40% of the canopy cover. Otherwise a shade tolerant (TMIX) or shade intolerant (IMIX) mix is assigned.

**From Forest Plan Revision DFCs for Warm Moist PVT for MA3. MA3 is very similar to E1, which is most of the project area.

***Post Harvest assumes all harvest and associated planting has occurred and only makes a change to dominance type for regeneration harvest treatments. This is an estimate considering actual harvest acres vary from the planning acres, and appropriate habitat types for western white pine restoration are determined on the ground versus using GIS. All harvest acres were assigned to western white pine, however, western larch will also be planted in these areas and ponderosa pine may be planted on south and west facing slopes to provide diversity. The percentage of western larch is also expected to increase, though this analysis does not show this.

Existing Condition		
Dom Type	Acres	Dominance Type Assigned (Above)
Herb	248	Western Larch
Shrub	170	W White Pine
Sp Veg	3	Western Larch
MX-PIPO	503	Ponderosa Pine
MX-PSME	1328	Douglas-fir
MX-ABGR	3301	Grand Fir/WRC
MX-PICO	36	Lodgepole Pine
MX-THPL	744	Grand Fir/WRC
TMIX	175	Grand Fir/WRC
IMIX	152	Douglas-fir
Total	6660	

Post Harvest		
Dom Type	Acres	Dominance Type Assigned (Above)
Herb	244	Western Larch
Shrub	166	W White Pine
Sp Veg	2	Western Larch
MX-PIPO	476	Ponderosa Pine
MX-PSME	981	Douglas-fir
MX-ABGR	2583	Grand Fir/WRC
MX-PICO	36	Lodgepole Pine
MX-PIMO	1608	W White Pine
MX-THPL	421	Grand Fir/WRC
TMIX	79	Grand Fir/WRC
IMIX	64	Douglas-fir
Total	6660	

White Pine Warm Moist PVT Size Class

Size Class	Acres	Existing Condition (%) *	Desired Future Condition (%) **	Gap Between EC and DFC	Post Harvest Acres ***	Post Harvest %	Management Action to meet Desired Condition
Seral Grass/ Shrub	418	6	5-15%	Within Range	412	6	No action
0-4.9" DBH	626	9	15-25%	6-16% Below	2182	33	Increase through regeneration harvest of 10-14.9", 15-19.9" and 20+" DBH with active root disease
5-14.9" DBH	2278	34	20-35%	Within Range	1772	27	Decrease 10-14.9" DBH through regeneration harvest only in active root disease stands
15-19.9" DBH	2568	39	15-25%	14-24% Above	1685	25	Decrease through regeneration harvest; focus on active root disease stands
20+" DBH	770	12	10-35%	Within Range	609	9	Decrease through regeneration harvest only in active root disease stands
	6660	100			6660	100	

*Size Class is from Region 1 Vmap, TreeSize attribute.

**From Forest Plan Revision DFCs for Warm Moist PVT for MA3. MA3 is very similar to E1, which is most of the project area.

***Post Harvest assumes all harvest and associated planting has occurred and only makes a change to size class for regeneration harvest treatments. This is an estimate considering actual harvest acres vary from the planning acres. Harvest units were assigned to the 0-4.9" DBH because they will have tree cover which creates a slight imbalance with desired future condition. However, the need for western white pine restoration and the current health of stands impacted by root disease is also an important factor.

Existing Condition		
Vmap Tree Size	Acres	Size Class Assigned (Above)
Herb	248	Seral Grass/Shrub
Shrub	170	Seral Grass/Shrub
DBH 0-4.9"	626	0-4.9" DBH
DBH 5-9.9"	229	5-14.9" DBH
DBH 10-14.9"	2049	5-14.9" DBH
DBH 15-19.9"	2568	15-19.9" DBH
DBH >= 20"	457	20+" DBH
DBH 20-24.9"	313	20+" DBH
Total	6660	

Post Harvest		
Vmap Tree Size	Acres	Size Class Assigned (Above)
Herb	244	Seral Grass/Shrub
Shrub	166	Seral Grass/Shrub
SpVeg	2	Seral Grass/Shrub
DBH 0-4.9"	2182	0-4.9" DBH
DBH 5-9.9"	184	5-14.9" DBH
DBH 10-14.9"	1588	5-14.9" DBH
DBH 15-19.9"	1685	15-19.9" DBH
DBH >= 20"	417	20+" DBH
DBH 20-24.9"	192	20+" DBH
Total	6660	

White Pine Old Growth

OGAU 202					
OG Status	Acres	Existing Condition (%)	Desired Future Condition (%)	Gap Between EC and DFC	Management Action to meet Desired Condition
Not OG	4434	78	N/A	N/A	
Recruitment OG	941	16	N/A	N/A	
Step Down OG	220	4	N/A	N/A	
Existing OG	120	2	5-10%	3-8% Below	With 2% Existing and 4% Step Down, the unit will exceed the 5% requirement into the future. No action necessary.
	5715	100			

OGAU 204					
OG Status	Acres	Existing Condition (%)	Desired Future Condition (%)	Gap Between EC and DFC	Management Action to meet Desired Condition
Not OG	10822	83	N/A	N/A	
Recruitment OG	993	8	N/A	N/A	
Step Down OG	805	6	N/A	N/A	
Existing OG	377	3	5-10%	2-7% Below	With 3% Existing and 6% Step Down, the unit will exceed the 5% requirement into the future. No action necessary.
	12997	100			

White Pine Treatments in Old Growth

Unit Number	Acres	OG Type
F16	14	Stepdown
F3	12	Stepdown
F2	27	Recruitment
F1	83	Recruitment
Total	136	

White Pine Roads Through Old Growth

Unit Number	Square Feet	Acres	OG Type
51-52	27034	0.62	Stepdown
51-52	13538	0.31	Recruitment
46-50	13500	0.31	Stepdown
46-50	8440	0.19	Old Growth